



#6 IDS
M. Brunson
4/6/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Yasushi KANEKO et al.**

Serial Number: **09/887,092**

Group Art Unit: **2871**

Filed: **June 25, 2001**

Examiner: **Dung T. Nguyen**

For: **LIQUID CRYSTAL SHUTTER AND METHOD OF DRIVING THE SAME**

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97(c)

Commissioner for Patents
Washington, D.C. 20231

Date: April 1, 2002

Sir:

The attention of the Patent and Trademark Office is hereby directed to the document listed on the attached Form PTO-1449. A copy of a translation of the abstract of the document is attached.

This IDS is being submitted after issuance of a first official action on the merits and expiration of the three-month period following the filing date or the entry of the national stage for the above-captioned application, but prior to issuance of either a final official action or a Notice of Allowance. A check is attached hereto for the \$180.00 fee set forth in 37 CFR § 1.17(p).

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. See 37 CFR 1.104(a) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Form PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

04/03/2002 CNGUYEN 00000034 09887092

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180.00 DP

By: Yasushi KANEKO et al.
Serial No. 09/887,092


Group Art Unit: 2871
Examiner: Dung T. Nguyen

Applicants submit that the document discloses a liquid crystal display device comprising an STN liquid crystal similar to that disclosed in Amstutz et al, and further discloses that such a state exists where the transmittance in pixels exceeds an initial transmittance at no applied voltage. However, it does not disclose that a voltage is applied to all pixels (= a reset term is set) before deciding whether the shutter is opened or closed (= a scan term). Accordingly, it does not disclose the scan term is set within (= shorter than) a holding time during which the maximum transmittance is kept. Thus, the document does not disclose the optimum driving method, and an effect of the invention of high contrast can not be realized.

The Commissioner is hereby authorized to charge any additional fee (or credit any overpayment) associated with this statement to our Deposit Account No. 01-2340. Two copies of this authorization are attached.

Respectfully submitted,

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Enclosures: PTO-1449 Form
(1) Japanese document